PERIODIC CALIBRATION FOR COMMUNICATION CHANNELS BY DRIFT TRACKING

ABSTRACT

5 [00102]   A method and system that provides for execution of a first calibration sequence, such as upon initialization of a system, to establish an operation value, which utilizes an algorithm intended to be exhaustive, and executing a second calibration sequence from time to time, to measure drift in the parameter, and to update the operation value in response to the measured drift. The second calibration sequence utilizes less

10 resources of the communication channel than does the first calibration sequence. In one embodiment, the first calibration sequence for measurement and convergence on the operation value utilizes long calibration patterns, such as codes that are greater than 30 bytes, or pseudorandom bit sequences having lengths of 2^N-1 bits, where N is equal to or greater than 7, while the second calibration sequence utilizes short calibration patterns,

15 such as fixed codes less than 16 bytes, and for example as short as 2 bytes long.